



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY
Name of the head of the Institution	S SURESH KUMAR
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08814-240588
Mobile no.	9121214503
Registered Email	principal@swarnandhra.ac.in
Alternate Email	nice.ssk@gmail.com
Address	Seetharampuram, Narsapur, Andhra Pradesh 534280, India

City/Town	NARSAPUR
State/UT	Andhra Pradesh
Pincode	534280
2. Institutional Status	
Autonomous Status (Provide date of Conformant of Autonomous Status)	19-Jun-2014
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.C.Sivapragash
Phone no/Alternate Phone no.	+919790204048
Mobile no.	9346610099
Registered Email	scetiqac@gmail.com
Alternate Email	sivadr2002@gmail.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.swarnandhra.ac.in/images/AQAR/AQAR-2019-20.pdf

4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

<https://swarnandhra.ac.in/swarnandhraexaminationportal/academicsschedule.html>

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.32	2013	08-Jul-2013	31-Dec-2019

6. Date of Establishment of IQAC

31-Jan-2013

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Universal human values, Soft skills and student induction training	16-Jul-2019 2	45
One day workshop on out come based education	17-Jun-2019 1	35
Workshop on Autonomous extension process	28-Jan-2020 2	210
External Administration and academic audit	19-Feb-2020	210

	2	
writing Effective research papers in high impact factor journals	10-Mar-2020 1	30

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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. R. S. Dubey	DAECSR	UGC	2020 534	1400000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of	View File

meeting and action taken report					
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No				
12. Significant contributions made by IQAC during the current year(maximum five bullets)					
Assessing the quality parameters and providing required suggestions for the improvement.					
Arranging Faculty Development programmes (FDP) for newly joined faculty.					
Conducting seminars / workshops, FDPs, Guest Lectures, training / certification programmes on quality related issues.					
Implementation of Outcomes Measurement for the courses in the Programme.					
Evaluation of existing teaching learning systems and related documents.					
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year					
<table border="1"> <thead> <tr> <th data-bbox="96 1169 488 1217">Plan of Action</th> <th data-bbox="488 1169 2123 1217">Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td data-bbox="96 1217 488 1513">To Encourage R&D and Consultancy, Establishing advanced / research labs / centres, setting up new</td> <td data-bbox="488 1217 2123 1513">Mechanical Engineering department was recognized as research center by JNTUK, Kakinada. Electronics and Communication Engineering, Computer Science Engineering departments have reapplied for research centres to JNTUK, Kakinada. · Established Internet of Things (IOT)Incubation Center. · Established Dassault Systemes in association with Andhra pradesh state skill development corporation (APSSDC). · Memorandum of Understanding (MOU) with Lincoln University College,</td> </tr> </tbody> </table>	Plan of Action	Achivements/Outcomes	To Encourage R&D and Consultancy, Establishing advanced / research labs / centres, setting up new	Mechanical Engineering department was recognized as research center by JNTUK, Kakinada. Electronics and Communication Engineering, Computer Science Engineering departments have reapplied for research centres to JNTUK, Kakinada. · Established Internet of Things (IOT)Incubation Center. · Established Dassault Systemes in association with Andhra pradesh state skill development corporation (APSSDC). · Memorandum of Understanding (MOU) with Lincoln University College,	
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experiments on latest technologies.	Malaysia · Established Applied Robots Control (ARC) Lab in associated with European Centre for Mechatronics (ECM)
Conducting Faculty Development Programs on Emerging technologies.	03 Faculty development Programs are organized.
Communication with Parents	Letters / Message with particulars of Percentage of attendance, Midexam marks, SGPA and Backlogs have been sent. · Percentage of student attendance is improved
Online Certification courses	SCET was recognized as NPTEL Local Chapter. · Faculty members and Students have got NPTEL course completion certificates for various courses.
To improve technical activities	Project Expo was organized in the institute in the month of December 2019.
To send SMS alert to the parents about progress	Alerts of Attendance and performance of students are sent to the parents. · Communication with Parents is done through Short Message Service (SMS).
To Monitor Teaching Learning process	Academic Audit is done at the middle and end of the every semester.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Academic Council	21-Nov-2020
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2021
Date of Submission	02-Mar-2021
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Yes, the Institute has a well designed Management Information System. All the major academic and nonacademic activities are implemented through MIS. Management Information System (MIS) software has been developed for all pre examination, examination, post examination and supplementary processes such as Time table generation, student list generation, online payment for examination detention list attendance of students, all internal and end semester examinations, entry of all internal marks tabulations, result declaration, results analysis, etc. are done through MIS system. • Modules are currently operational. • Automatic Student ID Generation • Automatic Students Transaction in Next Semester • Roll List generation. • Online Attendance entry and monitoring/reports • Consolidation of Internal Marks</p>

Part B

CRITERION I - CURRICULAR ASPECTS**1.1 - Curriculum Design and Development****1.1.1 - Programmes for which syllabus revision was carried out during the Academic year**

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	01	CIVIL ENGINEERING	10/06/2019
BTech	02	ELECTRICAL AND ELECTRONICS ENGINEERING	10/06/2019
BTech	03	MECHANICAL	10/06/2019
BTech	04	ELECTRONICS AND COMMUNICATION ENGINEERING	10/06/2019
BTech	05	COMPUTER SCIENCE ENGINEERING	10/06/2019
BTech	12	INFORMATION TECHNOLOGY	10/06/2019

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1.1.2 - Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	EEE	10/06/2019	Calculus and Linear Algebra 19MA1T01	10/06/2019
BTech	EEE	10/06/2019	Engineering Physics 19BS1T01	10/06/2019
BTech	EEE	10/06/2019	Problem Solving and Programming Using C 19CS1T01	10/06/2019
BTech	EEE	10/06/2019	Engineering Graphics 19ME1T01	10/06/2019
BTech	EEE	10/06/2019	Engineering Physics Lab 19BS1L01	10/06/2019
BTech	EEE	10/06/2019	C Programming Lab 19CS1L01	10/06/2019
BTech	EEE	10/06/2019	IT Workshop 19CS1L02	10/06/2019
BTech	EEE	10/06/2019	English Proficiency Lab 19HS1L01	10/06/2019
BTech	EEE	10/06/2019	Differential Equations and Vector Calculus 19MA2T02	10/06/2019
BTech	EEE	10/06/2019	Engineering Chemistry 19BS2T02	10/06/2019

[View File](#)**1.2 - Academic Flexibility****1.2.1 - New programmes/courses introduced during the Academic year**

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Calculus and Linear Algebra	10/06/2019
BTech	Engineering Chemistry	10/06/2019
BTech	Problem Solving and Programming Using C	10/06/2019
BTech	English	10/06/2019
BTech	Engineering Workshop	10/06/2019
BTech	Engineering Chemistry Lab	10/06/2019
BTech	C Programming Lab	10/06/2019
BTech	English Proficiency Lab	10/06/2019
BTech	Differential Equation and Numerical Methods	10/06/2019
BTech	Engineering Physics	10/06/2019

[View File](#)**1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.**

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engineering	09/06/2014
BTech	Electrical and electronics Engineering	09/06/2014
BTech	Mechanical Engineering	09/06/2014
BTech	Electronics and Communication Engineering	09/06/2014
BTech	Computer Science and Engineering	09/06/2014
BTech	Information Technology	09/06/2014

Mtech	CAD/CAM	16/06/2014
Mtech	Power Electronics	16/06/2014
Mtech	VLSISD	16/06/2014
Mtech	Computer Science and Engineering	16/06/2014
Mtech	Nanotechnology	16/06/2014
Mtech	Master of Business Administration	16/06/2014
Mtech	Master of Computer Applications	16/06/2014

1.3 - Curriculum Enrichment

1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
APTITUDE	06/06/2019	526
SOFT SKILLS BY GLOBRINA	06/06/2019	526
FUNDAMENTALS IN GAME DEVELOPMENT USING UNITY 3D C #	19/08/2019	57
FUNDAMENTALS IN GAME DEVELOPMENT USING UNITY 3D C #	26/08/2019	47
FUNDAMENTALS IN GAME DEVELOPMENT USING UNITY 3D C #	09/09/2019	47
BUILDING INFORMATION MODELING (BIM)	26/08/2019	30
PHP PROGRAMMING	22/08/2019	42
CATIA, DELMIA SIMULIA	21/05/2019	22
CATIA, DELMIA SIMULIA	25/06/2019	35

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1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	MECH	31
BTech	EEE	28
BTech	MBA	30
BTech	CSE	1

BTech

IT

7

[View File](#)**1.4 - Feedback System****1.4.1 - Whether structured feedback received from all the stakeholders.**

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)**Feedback Obtained**

Feedback forms are designed for the various stakeholders like faculty feedback, alumina feedback, student feedback, course exit survey, etc. Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course exit feedback and program exit feedbacks are taken to analyse the understanding capability of the students. Feedback about the infrastructural facilities is taken from the alumni students at the end of the program for improving the lab facilities, if any. The feedback so obtained is analysed for further improvement. Feedbacks from the parents are taken by interacting with them during Parent Teacher Meet. Feedback is taken from alumni for suggestions or improvements in the curriculum. Feedback from the Alumni students are taken for their suggestions in improving the curriculum and it is conveyed to the Chairman, BOS of the respective programmes of University of Mumbai. Feedbacks from faculties are also taken for their suggestions in syllabus revision. Feedback is also collected from the companies. This feedback is discussed in meeting of training and placement cell. We have also installed a suggestion box which is accessible to all the stake holders so that they can give their feedback/ suggestions for improvements, if any. Swarnandhra academic council conducts the exercise of student feedback every year. We have a system of taking feedback from students on infrastructure and also subject wise teachers. This is a feedback on 5-point scale, which measures parameters like Subject knowledge, Expression, Teaching aids used, methodology etc. which is analysed by our management for taking appropriate decisions for improving the infrastructure and also quality of teachers. The alumni feedback and exit

feedbacks are taken from all students. From these forms we are able to make out whether the proper teaching learning process is in place. Also, this process enables the institute to improve in the areas where ever necessary. The feedback is key tool which triggers in continuous improvement in the quality of education. The feedback is taken from students in order to analyse and implement as per their needs. The college maintains an IQAC as a quality consistence and quality enhancement measure. In supervision of IQAC, various departments and committees like Career Guidance, Anti-Ragging and Sexual Harassment Committee, etc reinforce the curriculum by incorporating updated information and diurnal social issues. Also, feedback is taken from experts and external examiners on quality of our students. Based on the above feedbacks and suggestions received we take corrective actions to complete the loop.

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CIVIL	72	65	65
BTech	EEE	144	97	97
BTech	MECH ENGG	216	161	161
BTech	ECE	288	275	275
BTech	CSE	216	209	209
BTech	IT	72	58	58
MBA	MBA	60	32	32
MCA	MCA	60	22	22
Mtech	VLSI	18	8	8
Mtech	CAD/CAM	18	14	14

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2.2 - Catering to Student Diversity

2.2.1 - Student - Full time teacher ratio (current year data)

Year	Number of students	Number of students	Number of fulltime teachers	Number of fulltime teachers	Number of teachers
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	enrolled in the institution (UG)	enrolled in the institution (PG)	available in the institution teaching only UG courses	available in the institution teaching only PG courses	teaching both UG and PG courses
2019	2686	215	179	18	14

2.3 - Teaching - Learning Process

2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
210	210	3	60	10	5

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 words)

To extend a proper guidance, students are assigned to a mentor. The main objective is to keep the track of the progress of the students and accordingly an academic and career guidance have been extended in the form of counseling. Parents are informed timely whenever the necessity arises such as attendance shortage and poor academic performance. Outside counselors are also invited for further counseling to deal their psycho-social problems.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2901	150	1:19

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
210	210	Nil	37	36

2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
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2019	Dr A Gopichand	Professor	Auropath Global Awards 2019 Excellence in Educational Service
2019	G V R S SAI KRISHNA	Assistant Professor	NPTEL DISCIPLINE STAR
2020	Dr. R.S. Dubey	Professor	Certificate of Reviewing Award
2020	S. Saravanan	Associate Professor	Reviewer Award
2019	Y. Venkatesh	Assistant Professor	Best Poster Presentastion in ICAN-2019
2020	Dr. R.S. Dubey, Dr. S. Saravanan	Professor	Honorary Rosalind Member of London Journals Press (Quarterly 2020) (Membership ID: #AT43662)
2019	MENDI SATYANARAYANA	Assistant Professor	ADVANCED LEVEL INSTRUCTOR
2020	PICHIKA RAVI KIRAN	Associate Professor	TECAHING EXCELENCE AWARD

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2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
Mtech	58-CSE	1 SEM	19/02/2020	03/03/2020
Mtech	57-VLSI	1 SEM	19/02/2020	03/03/2020
Mtech	004-CAD/CAM	1 SEM	19/02/2020	03/03/2020
Mtech	43- PE	1 SEM	19/02/2020	03/03/2020
BTech	12-IT	1 SEM	27/01/2020	05/02/2020
BTech	05-CSE	1 SEM	27/01/2020	05/02/2020
BTech	04-ECE	1 SEM	27/01/2020	05/02/2020

BTech	03- MECH	1 SEM	27/01/2020	05/02/2020
BTech	02-EEE	1 SEM	27/01/2020	05/02/2020
BTech	01-CE	1 SEM	27/01/2020	05/02/2020

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
3	2727	0.11

2.6 - Student Performance and Learning Outcomes

2.6.1 - Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://swarnandhra.ac.in/r16syllabusug.html>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
04	Mtech	CAD/CAM	7	6	86
57	Mtech	VLSI	1	1	100
1F	MCA	MCA	43	38	88
1E	MBA	MBA	27	27	100
12	BTech	IT	52	38	73
05	BTech	CSE	164	129	79
04	BTech	ECE	190	126	66
03	BTech	MECHANICAL	149	79	53
02	BTech	EEE	63	41	65
01	BTech	CIVIL ENGG	44	31	70

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2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://docs.google.com/forms/d/e/1FAIpQLSeX_q0hKYIEG_Tw8J0HiV9OC1xi0pR1MDsXr5UPnhANLvYkYA/viewform

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution provides seed money to its teachers for research

Yes			
Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
Dr. P.Srinivasulu	25000	2019	365

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3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				

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3.2 - Resource Mobilization for Research

3.2.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				

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3.2.2 - Number of ongoing research projects per teacher funded by government and non-government agencies during the years

2

3.3 - Innovation Ecosystem

3.3.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on IPR Management in Educational Systems	ALL DEPARTMENTS	15/07/2019
Workshop on Intellectual Property rights in Electronics and IT Sector	ECE CSE IT EEE	16/12/2019

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3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Project Competition	Guna Manikanta	Andhra Pradesh State Skill Development Corporation	16/03/2020	Best Prototype of the Product
Project Competition	Pavan Manikanta Eswar Kumar Sirigineedi	Andhra Pradesh State Skill Development Corporation	16/03/2020	Best Prototype of the Product
Reviewer Award	S. Saravanan	Journal of Nanophotonics, SPIE	02/01/2020	BEST PAPER
Best Poster Presentastion in ICAN-2019	Y. Venkatesh	Chettinad College of Engineering Technology, Karur (TN)	08/08/2019	BEST POSTER

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3.3.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	IIOT	SMORADINE TECHNOLOGIES PVT LTD	CENTER OF EXCELLENCE	TRAINING	08/06/2019

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3.4 - Research Publications and Awards

3.4.1 - Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
ECE	2
SH	2

3.4.2 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	ECE	33	1.04
International	MECH	15	0.46
International	EEE	11	0.74
International	CSE	7	0.12
International	SH	4	0.53
International	MCA	1	0

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3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CSE	5
ECE	2
MECH	1

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3.4.4 - Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
System and method of rationalize user predilection from an internet based social interactive contrive	Published	201941036819	20/09/2019

Accident Alerting Smart Traffic Light Control System

Published

201941033964A

20/09/2019

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3.4.5 - Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Rapid and economic fabrication approach of dielectric reflectors for energy harvesting applications	Y. Venkatesh, R.S. Dubey, B. Kumar	Scientific Reports	2020	6	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	6
Fabrication and characterization of spectrally selective glazing dielectric multilayer structures	Y. Venkatesh, R.S. Dubey, B. Kumar	Nanosystems: Physics, Chemistry, Mathematics	2020	1	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	1
Solvothermal Synthesis and Characterization of Doped-TiO ₂ Nanocrystals for Light Scattering Applications	R.S. Dubey, H.M. Pathan, B.B. Kale, J.D. Ambedkar	Micro Nano Letters	2020	0	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	Nil
Synthesis and Investigation of Dielectric Properties of Nanoceramic Composite Material for Microwave Applications	S. Srilali, R.S. Dubey, L. Pappula	Micro Nano Letters	2020	1	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	1
Electrochemical growth and characterization of ZnO	R.S. Dubey, S. Saravanan	Micro Nano Letters	2020	1	SWARNANDHRA COLLEGE OF ENGINEERING	1

nanostructures for dye-sensitized solar cells					AND TECHNOLOGY	
Optical characterization of chemically reduced silver nanoparticles for dye sensitized solar cells	S. Saravanan, R.S. Dubey	Journal of Nano- and Electronic Physics	2020	0	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	Nil
Synthesis of SiO ₂ nanoparticles by sol-gel method and studies for their optical and structural properties	S. Saravanan, R.S. Dubey	Romanian Journal of Information Science and Technology	2020	1	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	1
Study of Al-doped and Al/N co-doped TiO ₂ nanoparticles for dye sensitized solar cells	S. Saravanan, R.S. Dubey	Journal of Materials Environmental Science	2020	7	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	7
One-dimensional photonic crystals (Si/SiO ₂) for ultrathin film crystalline silicon solar cells	S. Saravanan, R.S. Dubey	Nanosystems: Physics, Chemistry, Mathematics	2020	4	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	4
Optical Pathlength Enhancement in Ultrathin Silicon Solar Cell Using Decorated Silver Nanoparticles on Aluminium Grating	S. Saravanan	Nanosystems: Physics, Chemistry, Mathematics	2020	1	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	1

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3.4.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding	Institutional affiliation as mentioned in
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					self citation	the publication
Optical and structural studies of ZnO thin film prepared by electrodeposition method	S. Saravanan, R.S. Dubey	AIP Conference Proceedings	2019	75	5	Swarnandhra College of Engineering and Technology
Design and Optimization of Sandwich Pipefor Deep Water Applications	P Satyanarayana Raju, Dr. A Gopichand, Ch. Harish Kumar	International Journal of Engineering Trends and Technology	2019	2	Nil	Swarnandhra College of Engineering and Technology
Hybrid Artificial Immune System Algorithm for SDST Flow Shop Scheduling with Due Date	Dr R Sanjeev Kumar Dr G Robert Singh	Test Engineering and Management	2019	10	Nil	Swarnandhra College of Engineering and Technology
Solving SDST Flow shop Scheduling Problemsusing Hybrid Artificial Bee Colony Algorithms	Dr R Sanjeev Kumar Dr G Robert Singh	International Journal of Recent Technology and Engineering	2019	20	Nil	Swarnandhra College of Engineering and Technology
Design and analysis of sandwich pipe for different core shapes	Dr.A.Gopichand, P.Satyanarayana Raju, Ch. HarishKumar	International Research Journal of Engineering and Technology	2019	Nil	Nil	Swarnandhra College of Engineering and Technology
Fabrication and Static Analysis of Human Ear	Dr. A. Gopichand	International Journal of Research	2019	Nil	Nil	Swarnandhra College of Engineering and Technology
Effect of Moisture on Vibration Characteristics of SMA	N.V.S.Shankar, Dr.A.Gopichand	International Journal of Engineering	2019	2	Nil	Swarnandhra College of Engineering

Particulate Reinforced Epoxy Matrix Composite		Trends and Technology				and Technology
Analysis on energy consumption in smart grid WSN using path operator calculus centrality based HSA-PSO algorithm	Dr. C. Sivapragash	Soft Computing	2019	81	4	Swarnandhra College of Engineering and Technology
Location-Based Optimized Service Selection for Data Management with Cloud Computing in Smart Grids"	Dr. C. Sivapragash	MDPI: Energies	2019	93	7	Swarnandhra College of Engineering and Technology
Detection of autism in children by the EEG behaviour using hybrid bat algorithm based ANFIS classifier	Dr. J. Mahil	Circuits, Systems and Signal Processing Springer	2019	53	5	Swarnandhra College of Engineering and Technology

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	75	100	50
Presented papers	5	2	Nil	Nil
Resource persons	Nil	2	4	3

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3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
A.Venkata Krishna,	Up gradation of RCMT base at	Devi Engineering Consstructions	0.16

Civil Engineering

Narsapur (ONGC Project).

Private Limited, kakinada

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3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Training Department	Placement Oriented Training	Swarnandhra College of Engineering and Technology	540000	540
Dr.B.Ramakrishna	C Programming Language	Global quality Training and assessors ,Pvt.Ltd.	100000	2
Dr.P.Srinivasulu	Python Programming	Global quality Training and assessors ,Pvt.Ltd.	100000	2

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3.6 - Extension Activities

3.6.1 - Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
KISHORE VIKASAM PHASE-3 AWARENESS PROGRAMME	SCET-NSS	2	100
DRUG DE-ADDICTION PROGRAMME	SCET-NSS	2	100
COMMUNAL HARMONY CAMPAIGN WEEK FUND RAISING PROGRAMME	SCET-NSS	2	50
ONE STUDENT ONE TREE	SCET-NSS	2	100
RASHTRIYA EKTA DIWAS	SCET-NSS	2	100
SWACHHATA HISEVA	SCET-NSS	2	100
AWARENESS ON AGAINST USAGE OF PLASTIC	SCET-NSS	2	100

BLOOD GROUPING IN CAMPUS	SCET-NSS	2	100
ENVIRONMENTAL PROTECTION RECYCLING WASTE USED PAPER	SCET-NSS	2	100
INTERNATIONAL YOGA DAY	SCET-NSS	2	100

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3.6.2 - Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			

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3.6.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	SCET	International Yoga Day	6	100
NSS	SCET	Environmental Protection Recycling Waste Used Paper	6	100
NSS	SCET	Blood Grouping in Campus	6	100
NSS	SCET	Awareness on Against Usage of Plastic	6	100
NSS	REDCROSS	Swachhata Hiseva	6	100
NSS	SCET	Rashtriya Ekta Diwas	6	100
NSS	SCET	One Student One Tree	6	100
NSS	SCET	Communal Harmony Campaign Week Fund Raising Programmee	6	50
NSS	SCET	Drug De-Addiction Programmee	6	10

[View File](#)**3.7 - Collaborations****3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year**

Nature of activity	Participant	Source of financial support	Duration
Sharing of Research Facilities	Research Scholars, Faculty members	College Management	10
Sharing of Research Facilities	Students, Research Scholars, Faculty members	College Management	8
Sharing of Research Facilities	Research Scholars, Faculty members	College Management	5
Sharing of Research Facilities	PG Students, Research Scholars, Faculty members	College Management	11
Sharing of Research Facilities	Students, Research Scholars, Faculty members	College Management	20
Sharing of Research Facilities	Students, Research Scholars, Faculty members	College Management	10
Sharing of Research Facilities	Students, Research Scholars, Faculty members	College Management	10
Sharing of Research Facilities	Research Scholars	College Management	7
Sharing of Research Facilities	Students, Research Scholars, Faculty members	College Management	20
Traning programme	Faculty Members	Administrative Staff College of India, HYDERABAD	6

[View File](#)**3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year**

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant
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		details			
Internship	An experimental study on the reusability option of faecal char briquettes	Administrative Staff College of India, HYDERABAD	04/01/2020	30/03/2020	Students
Internship	Study on containments in new construction at Narsapur municipality	Administrative Staff College of India, HYDERABAD	04/05/2019	05/06/2019	Students
Traning programme	Water and waste watertreatment	Administrative Staff College of India, HYDERABAD	11/03/2019	16/03/2019	Faculty Members
Traning programme	Faecal Sludge and Septage Management in Urban Areas	Administrative Staff College of India, HYDERABAD	21/01/2019	23/01/2019	Faculty Members
Training	Nil	ADMINISTRATIVE COLLEGE OF INDIA-HYDERABAD	01/05/2019	01/05/2021	Students

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3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ADMINISTRATIVE COLLEGE OF INDIA-HYDERABAD	01/05/2019	Training	30

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CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
48.1	43.73

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
EZ-LIBRARY SOFTWARE ,VOLK SOFT TECHNOLOGIES ,HYDERABA	Fully	V 10.0.9.23-EZ	2006

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	35236	7525822	Nil1	Nil1	35236	7525822
Reference Books	6076	1368853	Nil1	Nil1	6076	1368853
e-Journals	Nil1	Nil1	458	277500	458	277500
Digital Database	1	13570	2	19400	3	32970

Library Automation	Nil	Nil	1	35000	1	35000
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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.B.Rama Krishna	c plus	glide app	19/11/2019
Dr.B.Rama Krishna	DATA STRUCTERS	MOODLE	12/08/2019
Mrs.K.HARITHA RANI	JAVA	GOOGLE LMS	15/01/2020

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	906	699	20	0	130	23 34	140	0
Added	43	42	0	0	0	1 0	0	936
Total	949	741	20	0	130	24 34	140	936

4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)

140 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
MEDIA CENTRE	http://swarnandhra.ac.in/2-home/767-mediacenter/

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on	Expenditure incurred on maintenance of	Assigned budget on	Expenditure incurredon maintenance
--------------------	--	--------------------	------------------------------------

academic facilities	academic facilities	physical facilities	of physical facilities
598.6	544.18	139.95	127.23

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

Swarnandhra College of Engineering and Technology (SCET) has Maintenance Management System issubdivided as Physical, Academic and Support facilities. Institution made a provision in the budget for maintenance of its physical and academic support facilities. Routine maintenance of the infrastructure facilities are carried out by the supervision of the Estate Officer and Superintendent. Class Rooms: Use of non-dust chalks. Daily sweeping of class rooms Wet cloth cleaning of benches (at least twice a week). Black board cleaning (with wet cloth daily). Common dust bins are provided at various locations in each floor and in every class room. Laboratories - Maintenance Utilization: Preventive maintenance plan is followed in laboratories. Periodical checkups and calibration of equipment in all laboratories are often takes place. The repairs and servicing of the equipment is done by the Lab technicians and concerned technical persons under the supervision of lab in-charge. Stock verification is conducted in all laboratories every year. Provision for maintenance is provided in Annual budget of the institution. Library: The institution has a central library along with departmental libraries. The maintenance of library includes shelving, shifting, sorting, binding, searching for missing items, preservation and making sure the stacks are presentable and organized. Verification of books and replacing/ordering new books are done once in every six months. Sports Activities: Students are well encouraged to participate in extra curricular activities, sports and games. Institution has excellent infrastructure for various sports and games, viz., Cricket, Football, Table Tennis, Badminton, Shuttle, Volley Ball, Athletics etc. The sports and games equipment is monitored by physical director. A proper record is maintained in the department for physical count of sports material for the future use. Hostels: Institution has separate hostel facility for boys and girls along with gymnasium. The superintendent and hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene in the surroundings. Systematic and well organized management principles are applied for the students to maintain time, discipline in the hostels. Computer Systems Maintenance: There is a group of system maintenance committee, headed by a senior faculty, with a mandate to recommend to the management the need for upgrading existing machines, replacing the obsolete ones with new ones, maintenance of the networking system, purchase of accessories such as switches, routers, printers etc. Internet and Wi-Fi: System administrator and team of technicians look after the maintenance of daily band width, usage, bandwidth allocation and sharin

<http://swarnandhra.ac.in/ictenabledclassrooms.html> or <http://swarnandhra.ac.in/wifi.html> or

<http://swarnandhra.ac.in/commonrooms.html>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	JAGAN ANNA VIDYADEEVENA	2213	91835800
Financial Support from Other Sources			
a) National	CENTRAL SECTOR SCHEME OF SCHOLARSHIPS FOR COLLEGE AND UNIVERSITY STUDENTS	292	1752000
b) International	Nil	Nil	Nil

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
PYTHON	03/09/2019	65	APSSDC
BUILDING INFORMATION MODELING (BIM)	26/08/2020	44	DASSAULT
SOLID WORKS	24/02/2020	91	TECHNOLOGISCM
HINDU-STEP NCSC (SAMPLE TEST)	28/01/2020	106	NCSE
DASSAULT GLOBAL CERTIFICATION CAMP	09/12/2019	116	APSSDC DASSAULT
FUNDAMENTALS IN GAME DEVELOPMENT USING UNITY 3D C #	19/08/2019	58	APSSDC
TCS CODEVITA ONLINE TEST	12/07/2019	215	TCS
C TRAINING	15/07/2019	423	INHOUSE

TALENTIO ONLINE ASSESSMENT TEST	28/06/2019	393	TALENTIO
ARC QUALIFYING TEST	08/05/2019	263	ARC

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	GATE/PGCET/CRT	658	658	18	558

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5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	4

5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
54	658	479	8	180	79

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	5	B. Tech	CSE	GIET	PhD

2019	4	B.Tech	CSE	JNTUK	M.Tech
2019	2	B.Tech	CIVIL	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	M.Tech
2019	1	B.Tech	CIVIL	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	M.Tech
2019	4	B.Tech	CSE	GIET	PhD
Nill	6	B.Tech	ECE	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	M.Tech
2019	5	B.Tech	ECE	SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY	MBA
2019	4	B.Tech	ECE	Aditya Engineering College	M.Tech
2019	2	B.Tech	ECE	National Taiwan University of science and technology, Taiwan	MS
2019	1	B.Tech	ECE	National sun yatsen university, Taiwan	MS (International masters program in telecommunication Engineering)

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5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	18

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5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
PROJECT EXPO	STATE	33
QUIZ	STATE	60
PAPER PRESENTATION	STATE	18

CIRCUIT DEBUGGING	STATE	32
PAPER PRESENTATION	STATE	3
PROJECT EXPO	NATIONAL	7
ROBO RACE	NATIONAL	12
PENCIL ART	NATIONAL	16
ROBO SOCCER	NATIONAL	9
HYDRO ROCKET	NATIONAL	20

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5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	ZONE WINNERS	National	1	Nil	17A25A0227	MD. SAMEER
2019	ZONE WINNERS	National	1	Nil	19A25A0135	CH. Naga Bhushanam
2019	ZONE WINNERS	National	1	Nil	18A25B0320	SAV Reddy
2019	ZONE WINNERS	National	1	Nil	17A21A05A3	A.B Subhash

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5.3.2 - Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

STUDENT COUNCIL The Institution has a student council for which students are selected depending on their Academic Performance. Student council is a central body that monitors academic, co-curricular and cultural events like the activities of the Vivekananda study circle, the Bhuvanavijayam club, NSS and all the other events organized in and around the institution campus. MESS AND CANTEEN COMMITTEE Mess and Canteen Advisory Committee monitor food quality, sanitation or inconvenience faced by students inside the mess and canteen is being sorted out. HOSTEL COMMITTEE The boys and girls hostels have a committee of nine members. The members including one management member, four

wardens (2 Girls hostel wardens 2 Boys hostel Wardens) four students (2 boys 2 Girls) representatives meet to ensure the proper functioning of the hostels and to discuss problems inside the hostel. SPORTS ADVISORY COMMITTEE Members of the committee, including student representatives, take up agenda items like existing facilities, forthcoming tournaments, scheduling of practice timings to various departments, coaching facilities, etc. LIBRARY ADVISORY COMMITTEE The Library Advisory Committee members meet once every month to discuss the availability of books, periodicals and journals, and the procurement of new titles. Students from all branches are made members. The opinion of the students on matters related to the adequacy and availability of books, eresources, new titles and other facilities are considered. TRANSPORT ADVISORY COMMITTEE The Transport Advisory Committee including Transport In-charge and student representatives to sort out the grievances like inadequacy of seating, timings, the extension of service, providing additional stops, etc. ANTI RAGGING COMMITTEE The anti-ragging committee includes D.S.P, C.I, newspaper reporter, all department heads, two management members, physical director, transport in-charge, boys and girls hostel wardens, local prominent people (Advocate, 2 Parents). If any student faces a problem with the ragging, he/she will intimate to this committee and a complaint will be filed and necessary action is taken. ALUMNI COMMITTEE The institution has an alumni committee, which conducts alumni meets with graduate students. Alumni meet maintains a relationship with each other and review previous meeting activities, interacts with the alumni members, and considers the feedback and suggestions for the development of the institution. Alumni members are involved in the Board of Studies. INTERNAL QUALITY ASSURANCE CELL (IQAC) The institution established an Internal Quality Assurance Cell (IQAC). IQAC works under the chairmanship of the head of the institution and convener with faculty members from each department. Students are also members of institutional IQAC. Student members consider suggestions and feedback for IQAC.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

The alumni association of Swarnandhra College of Engineering and Technology (SCET) is registered in the year 2007. The alumni association is one of the stakeholders of the Swarnandhra College of Engineering and Technology (SCET). They contribute immensely to the development of the college in multiple dimensions. SCET conducts an Alumni meeting every year. SCET Alumni association is contributing to the college financially, academically in exploring new opportunities. The funds contributed by the Alumni are utilized towards the development of labs, medals, awards to students, other amenities, etc. Alumni have also contributed immensely as members of BOS, delivering Guest lectures, offering Intern-ships, assisting in Placement, organizing Industry visits, and also assisting students to get admissions into reputed Universities Abroad. The Alumni have provided

mentoring services to the students by holding one to one interaction with the students. They have become influential in making the students understand the industry-institute gap and also the way to plan and shape up one's career in the right direction. SCET Alumni have been influential in making the students to understand various business opportunities and providing all the support required for preparing them to become entrepreneurs and to know the current dynamics of the industry. Alumni profiles and their growth verticals are being showcased to the present students for guidance. Alumni are influential in introducing the outcome-based education in the University and nurturing professionalism and Industry-readiness among the students. Alumni are invited to participate in their respective BOS. Alumni contributed extensively in bridging the gap between industry requirements and academics by reviewing and restructuring the syllabi. They recommended moderating the delivery of Academics such as experiential learning. Their contribution leads to a change from faculty-centered learning to studentcentered learning. Alumni have been deliberately concentrating on the industryoriented research projects and undertaking consultancy services based on the expertise of the faculty and the kind of research labs supported by the college. The Alumni working at reputed organizations located globally are also helping the outgoing students in their internships. Alumni are providing necessary support and encouragement to develop quality standards that could be used to enhance and raise the quality of delivery of the educational system

5.4.2 - No. of registered Alumni:

828

5.4.3 - Alumni contribution during the year (in Rupees) :

165900

5.4.4 - Meetings/activities organized by Alumni Association :

- Career Guidance Programme, • Entrepreneurship Development Programme • Placement guidance Programme • Project Guidance Programme

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The management is highly committed and dedicated to the service of catering to the contemporary requirements to impart quality education. The management gives freedom to the Principal to fulfill the vision and mission of the college. The management provides the required infrastructure for the proper functioning of the institution. The responsibilities of each faculty member are communicated through principal and HODs in regular staff meetings. The management, principal and faculty of the

college are committed towards strategic work, its implementation and maintain perfect documentation, and extend further efforts to continue the effectiveness of the plans through a Quality Management System. Management is committed to ensure conformity and compliance with standards. The institution follows decentralization and participative management which promotes quality in education system. The case study of the preparation of Academic Planner The institution functions with the method of decentralized governance system. The Head of the Department (HoD) has the authority to decide the activities and delegating responsibilities to the staff members. The department decides on the timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures, and workshops and recommends necessary industrial visits, inplant training, internships, and MoUs. The institution is functioning effectively with the culture of participative management which enables the Page 78/108 05-03-2020 04:03:51 Self Study Report of SWARNANDHRA COLLEGE OF ENGINEERING TECHNOLOGY faculty and students to give their opinion and suggestions for improvement. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, and HoDs' meetings with Principal. The Principal coordinates through the Internal Quality Assurance Cell (IQAC) with the departments, administration, and management. Participative management provides extensive scope for having collaboration among the departments and ensures the quality of planning and implementation of all the activities in the institution uniformly and as a team. Every year Academic Planner is prepared by IQAC, COE HOD's the closure of the previous academic year. Principal will convene the HODs' meeting. The schedule of the following will be discussed and finalized in accordance. Preparation of the next academic year with Working days/test days/model exam days, Department activities, Guest Lectures, Industrial Visits, Internships, Placement Training, Audit Days, FDPs / Workshops / Conferences, and all-day celebrations. The Principal submits the final schedule to Academic Council for approval. All committees follow the same. Nearly 90 of the events as per schedule are conducted every year. The prior preparation of an academic planner helps in identifying resource persons for different activities mentioned and enables the management to invite celebrities. Further, student activities are designed as and when the academic planner provides the available time. Smart classrooms, Seminar Halls, Activity hall, and Separate Registers are available for booking the venues appropriate to the events.

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	<p>The regulations/guidelines specified herein are applicable for admission of candidates to various Diploma,UG and PG programs offered by Swarnandhra College of Engineering Technology, Seetharamapuram, Narsapur, from the academic year 2019-20. These are subject to change according the orders of the UGC, the AICTE, the State Government Andhra Pradesh Higher Education Regulatory and Monitoring Commission and the Conveners of various UG and PG Common Entrance Tests etc from time to time.</p>
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Signing MOU's with industry and premier institutes • Setting up technology parks in collaboration with industries • To arrange industrial training for students and identify projects in industries • To encourage industry to collaborate in industry study tour programmes. • Guest lecturers form eminent personalities, academics, leading industrialists at regular intervals • To arrange short term courses for the benefit of students and faculty of all disciplines by experts from the industry.
Human Resource Management	<ul style="list-style-type: none"> • Establish an active human resource management and develop the unit on the lines of corporate sector. • Institution is encouraging faculty to upgrade their qualification for Bachelors to Masters and form Masters to Doctoral. • Understanding the current level of student competencies for improving employability. • Create faculty retention policies and implement them. • Motivate and retain good faculty by <ul style="list-style-type: none"> o Deputing them for higher education and pedagogical training. o Offering them incentives for achievement in teaching and research. o Providing start-up and incubation facilities for faculty coming out with innovative ideas in translating research finding into practical action (patents, IP licensing, etc.)
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • OPAC (Online Public Access Catalogue)Software for library management • The college joined as an institutional member of DELNET. DELNET connects all libraries of the technical institutions approved by AICTE in the country. • NPTEL (National Programme on Technology Enhanced Learning), web courses and video courses are being used by staff and students to enhance their skills • Wi-Fi connectivity is provided in the campus • Digital Library with twenty systems was established • Providing access to Ejournals such as Springer, ASME and ASCE. • Infrastructure • Providing required computational facilities with a sufficient number of computer and peripherals. • We are providing various amenities such as canteen, indoor and outdoor game facilities, Gym centre, medical centre, hostels and transport. • Closed-Circuit Television (CCTV) cameras have been installed within and around the campus for security purposes

Research and Development	<ul style="list-style-type: none"> • Research and development (RD) Cell with convener was established to give support in applying for funding agencies. • Encouraging faculty to register for Ph. D • Providing incentives to faculty for the presentation of research papers, attending conferences, workshops, etc. • We are conducting various awareness programs by experts.
Examination and Evaluation	<ul style="list-style-type: none"> • Autonomous end semester examination papers are being set and evaluated by external experts • Continuous internal evaluation • Display of internal answer sheets to the students. • Result will be declared within three weeks from the last date of the exam. • Uploading of provisional result in individual login of students • Display of consolidated internal marks to the students in the respective department notice board.
Teaching and Learning	<ul style="list-style-type: none"> • We are Promoting the usage of Information and Communication Technologies (ICT). • Implementing Outcome-Based Education (OBE) • Remedial classes were conducted for slow learners. • Expert Lectures and NPTEL Lectures were arranged to create full exposure. • Arranging training on pedagogy and assessing its impact on teaching-learning. • We are arranging Guest Lectures or Workshop to fill curriculum gaps and content beyond the syllabus. • We are encouraging faculty and students towards online certification course. • Smart classroom available.
Curriculum Development	<ul style="list-style-type: none"> • We are appointing industry personnel and alumni as members of the Board of Studies. • Curriculum revision will be done as and when required. • Receiving feedback from the employers and alumni on the existing curriculum for the required improvement and innovation • Board of Studies (BOS) meetings are conducted to frame/ revise the syllabus.

6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	The Institute through the Academics cell uploads tentative detailed calendar for every semester on the Institute website before the commencement of the academic session. The calendar highlights various activities and events viz. admission to various Semesters, internal and external examination schedules, sports, holidays, Induction and farewell programs, etc. The Institute also updates and make aware of the upcoming activities of the Institute and important events held in the Institute through the Institute website and various Medias such as Emails and Whatsapp.
Administration	Biometric system for attendance of faculty and staff. Salary intimation through Email. Form No. 16 sent through Email to all faculty and staff.

Finance and Accounts	Scholarship of students and salaries of employees are credited to their bank accounts directly. Students may pay their admission fees through MIS online
Student Admission and Support	70 Percent of the Seats are done by the Convener, Engineering, Agriculture and Medicine Common Entrance Test (EAMCET), Govt. of Andhra Pradesh through online. Remaining 30 percent of the seats are filled by the Management based on the guidelines given by Govt. of Andhra Pradesh.
Examination	Information regarding examination matters are uploaded on the Institute's Website. Examination forms are filled through MIS online with all processes like payments, results etc. Online examinations are held through BEES platform. Entire Examination Process is automated starting from Registration to result declaration

6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.S.Sureshkumar	Auropath Internationla conference, Dhonburi Raja Bhat University, Thailand.	Auropath	100000
2019	Dr.A.Gopichand	Auropath Internationla conference, Dhonburi Raja Bhat University, Thailand.	Auropath	100000
2019	Dr. V. Swaminadham	Auropath Internationla conference, Dhonburi Raja Bhat University, Thailand.	Auropath	100000
2019	Dr.P.Vamsikrishna Raja	Auropath Internationla conference, Dhonburi Raja Bhat University, Thailand.	Auropath	100000
2019	Dr.P.Prem Delphy	Auropath International Conference	Swarnandhra College of Engineering Technology	8000
2019	N.N.V.Sakunthala	Auropath International Conference	Swarnandhra College of Engineering Technology	8000

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6.3.2 - Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Universal human values, Soft skills and student induction training	Nil	16/07/2019	17/07/2019	45	Nil
2019	MAT Lab and its Application	Nil	08/01/2020	13/01/2020	46	Nil
2019	A Three Day on-line FDP on Advances in Civil Engineering .	Nil	21/05/2020	23/05/2020	175	Nil

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6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
TECHNICAL SKILL DEVELOPMENT: NEED OF THE HOUR	1	23/05/2020	27/05/2020	5
ICT TOOLS	1	11/05/2020	16/05/2020	6
EFFECTIVE TEACHING AND LEARNING PRACTICES	2	25/11/2019	29/11/2019	5
RECENT TRENDS IN RESEARCH METHODOLOGY	1	25/11/2019	29/11/2019	5
FACULTY DEVELOPMENT PROGRAMME	1	19/05/2020	21/05/2020	3
INNOVATION TO ACADEMICIANS	2	13/05/2020	14/05/2020	2
AWARENESS PROGRAMME FOR FACULTY- NAAC	1	11/05/2020	16/05/2020	5
FACULTY DEVELOPMENT PROGRAMME	1	30/01/2020	05/02/2020	7
MAT LAB AND ITS APPLICATION	7	08/01/2020	13/01/2020	6
NPTEL COURSE ON BODY LANGUAGE: KEY TO PROFESSIONAL SUCCESS	1	01/07/2019	01/08/2019	30

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6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
210	210	39	39

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
<p>Swarnandhra College of Engineering Technology offers various schemes to all the employees with the motivation to promote efficiency and efficacy. Welfare measures for teaching and non teaching members are not only for the development of staff but also for the organizations development. Following are the welfare measures provided to teaching and non-teaching staff by the institution: Employees Provident Fund as per PF rules Keeping in view the future safety of employees, the institution contributes a specific amount towards the provident fund of an employee as per PF rules. Group Insurance for staff members The college offers affordable group insurance to all employees that is uniform in nature, offering the same benefits. Maternity Leave A pregnant woman employee in our college is entitled to avail a maximum of 90 days full paid maternity leave. The employees will be normally paid on the same date as their salary would be paid. Fee concession policy to staff children This policy aims to promote the education of wards of the staff. Tuition fee concession will be given to the wards of staff who are studying in this institution. Encashment of Earned Leaves The employee in the institution is eligible to avail</p>	<p>Swarnandhra College of Engineering Technology offers various schemes to all the employees with the motivation to promote efficiency and efficacy. Welfare measures for teaching and non teaching members are not only for the development of staff but also for the organizations development. Following are the welfare measures provided to teaching and non-teaching staff by the institution: Employees Provident Fund as per PF rules Keeping in view the future safety of employees, the institution contributes a specific amount towards the provident fund of an employee as per PF rules. Group Insurance for staff members The college offers affordable group insurance to all employees that is uniform in nature, offering the same benefits. Maternity Leave A pregnant woman employee in our college is entitled to avail a maximum of 90 days full paid maternity leave.</p>	<p>Offering financial support from college management for poor deserve students ? Cash prizes will be given to student for Academic toppers. ? Sponsoring the students to participate in co-curricular and extracurricular activities.</p>

of ten earned leaves after completion of every year. These earned leaves are accumulated in the employees account and can be encashed as per the institute service rules. Fee concession for Bus Transportation Fee concession scheme is being implemented for the staff traveling in college buses. The scheme applies to all teaching and non-teaching staff. Subsidized food facility The institution offers a subsidized food facility to the staff with a reasonable charge that covers the cost of food, its preparation, and service.

Subsidized accommodation Subsidized accommodation is provided to both teaching and non teaching staff of the institution in the hostels. In addition to the above following are the welfare schemes available for the Teaching staff Support to staff for higher education/research Sponsorship is provided to the faculty members to pursue research degrees and leave will be granted to pursue research, to ensure and encourage the faculty in knowledge up gradation. Support to staff for attending workshops /conferences Faculty members are encouraged to participate in Conferences/Workshops to enhance their quality in academics and to help pursue their research by giving the sponsorships from the institution.

Awards Cash awards are given to faculty in recognition to outstanding contributions in paper publications in reputed journals

The employees will be normally paid on the same date as their salary would be paid. Fee concession policy to staff children This policy aims to promote the education of wards of the staff. Tuition fee concession will be given to the wards of staff who are studying in this institution. Encashment of Earned Leaves The employee in the institution is eligible to avail of ten earned leaves after completion of every year. These earned leaves are accumulated in the employees account and can be encashed as per the institute service rules. Fee concession for Bus Transportation Fee concession scheme is being implemented for the staff traveling in college buses. The scheme applies to all teaching and non-teaching staff. Subsidized food facility The institution offers a subsidized food facility to the staff with a reasonable charge that covers the cost of food, its preparation, and service. Subsidized accommodation Subsidized accommodation is provided to both teaching and non teaching staff of the institution in the hostels.

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institution has established a mechanism for conducting internal and external audits on

financial transactions every year to ensure financial compliance. Internal audit is conducted half-yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details, and the compliance report of internal audit is submitted to the management of the institution through the principal. The external audit is conducted once in every year by an external agency. The mechanisms used to monitor the effective and efficient use of financial resources are as below: Before the commencement of every financial year, the principal submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management College budget includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non-recurring expenses like lab equipment purchases, furniture and other development expenses. The accounts department will monitor the expenses as per the budget allocated by the management. The depreciation costs of various things purchased in the preceding years are also worked out.

6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Tharkan Web Innovations Private Limited, Chennai	0.5	Cash award for academic toppers

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6.4.3 - Total corpus fund generated

300000

6.5 - Internal Quality Assurance System

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	GLOBAL QUALITY TRINING AND ASSESSORS PVT.LTD, BANGALORE	Yes	SCET-IQAC
Administrative	Yes	GLOBAL QUALITY TRINING AND ASSESSORS PVT.LTD, BANGALORE	Yes	SCET-IQAC

6.5.2 - Activities and support from the Parent - Teacher Association (at least three)

- Faculty Advisor scheme and regular follow up of wards and parents for the betterment of students.

- Monthly performance over phone /SMS of students to their parents and Parents Meetings for poor-performing students
- Students performance is available on the college website and accessible to parents.

6.5.3 - Development programmes for support staff (at least three)

- Pillers programme conducted every month for support staff
- The technical workshop is conducted to enhance their technological skill
- English communication training conducted
- Excel /Power point presentation skill training conducted

6.5.4 - Post Accreditation initiative(s) (mention at least three)

- IoT incubation centre established.
- Centre of excellence established.
- ISO9001: 2015 Certification.

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	NAAC Cycle II Preparation	22/02/2020	01/06/2019	31/05/2020	210
2019	Academic Audit Internal	30/10/2020	01/06/2019	31/05/2020	210
2019	Participation in NIRF	31/12/2020	01/06/2019	31/05/2020	210
2020	Patents	30/05/2020	01/06/2019	31/05/2020	15
2020	Preparation for NBA	15/03/2020	01/06/2019	11/03/2020	210

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CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
MULTI SKILL TRAINING PROGRAM	19/08/2019	30/09/2019	10	5
CAREER GUIDANCE PROGRAM	11/09/2019	11/09/2019	50	20
CAREER IN MANAGEMENT SECTOR	10/12/2019	10/12/2019	20	15
Opportunities and benefits of ASCE and other Professional Societies for Civil Engineering students for Professional Growth	03/02/2020	03/02/2020	20	10

7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
57.54

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Yes	Nil

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	Nil	1	29/07/2019	1	Paid school fee for 2 poor children	welfare of poor	10

						communities	
2019	1	Nil	14/08/2019	1	Celebrated Independence Day at MMK high school and conducted games quiz competitions etc.	social gathering of local community	20
2019	Nil	1	13/12/2019	1	Donation to accident case	Medical help to local communities	25
2019	1	Nil	20/12/2020	1	Medical camp at varla gondi tippa	Medical test to local communities	15
2019	1	Nil	31/12/2021	1	Carrier Guidance at palakollu Sunshine School	Guidence to local children	12
2020	1	Nil	11/01/2020	1	General Health Check Up Camp	Medical test to local communities	30
2020	Nil	1	14/04/2020	1	Donation to accident victum	Donation to community	40

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7.1.5 - Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of professional ethics	20/06/2019	The institution core values are aligned with its mission and vision and are reflected in the curricular and professional growth of the students. • The institute promotes gender sensitivity among all stakeholders. Safety and security, common room facilities are provided to females. • Women grievance committee ensures fast decisions if any case of sexual harassment issue

arises. Girls are given special counselling to overcome depression, abnormal behaviour etc. • The institute's main focus is on renewable energy, waste management, rainwater harvesting and green practices. The aim is to develop awareness of environmental issues and sustainability. Energy consumption is continuously monitored for improvement. The budget for green initiatives/activities is allocated annually. • The institution has a strong commitment to differently abled people and provides facilities like ramps, washrooms, reserved space in the library etc. • Separate codes of conduct are prescribed for students, teachers, faculty, and administrators and all administrative and are displayed in institution website. Academic, administration and financial information are updated on the university website. • The institute celebrates all important days of national/international importance and conducts a large number of activities to promote universal values. • The course coordinator system has been continued. Conduct of subject-based Seminars and workshops have been continued. The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Universal Human values, soft skills	16/07/2019	17/07/2019	45
Student induction programme	22/08/2019	22/08/2019	200
Awareness programme on Human values and professional ethics	09/01/2020	09/01/2020	80

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7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. 400KW (Peak to Peak) solar power generation
2. Separate bins for waste
3. E-waste collection centre
4. A complete ban on polythene at the campus
5. Student community garden
6. Use of more LED than CFL

7. Paperless office administration

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Objectives of the Practice Outcome based education (OBE) is a student centred instruction that focuses on measuring student performance i.e. outcomes. Outcomes include knowledge, skills and attitudes. The outcomes of the program to be evaluated though input and output parameters are also important. To provide assurance that a college program meets the quality standards of the profession for which that program prepares its graduates. Though, the evaluation process includes many terminologies such as, Program Educational Objectives (PEO), Program Outcomes (PO) and Course Outcomes (CO), different roles were considered to implement and execute the outcome based education process. Out of which Course Coordinators are an effective role for execution of activities under various modules of the program. Therefore, Swarnandhra College of Engineering and Technology (SCET) has been practicing course coordinator ship effectively to shift the focus of education from educator to learner with the following objectives:

- To set high academic content standards
- To design curriculum and course works more efficiently
- To maintain high transparency in student assessments
- To provide core support and essential autonomies for students

The Context In the context of OBE, head of the department is the program coordinator (PC) and key role player in order to execute all the activities of OBE. The PC will monitor and review the activities of the program for all the four years through Module Coordinators. Many modules were considered as per the requirement for the program. Module coordinators (MC) were ratified by Internal Quality Assurance Cell (IQAC). The module coordinators are responsible for the delivery of the teaching in individual modules and the accompanying administration. Module coordinators conduct meetings with course coordinators (CC) for execution of activities under their module. Course coordinator is designated wherever the same course is offered by different course lecturers in different sections/classes. The CC is responsible for planning, delivering and assessing the outcomes of the courses offered by him/her during the semester/year. Course coordinators are accountable to the program coordinator for all academic and administrative activities associated with the course instructor. He/she has to work in coordination with the course lecturer and the module coordinator for the day to day activities and with the program coordinator for the overall course administration. The course coordinator is expected to maintain academic quality in knowledge, pedagogy and alignment of the learning activities with course outcomes and assessment. The Practice With the intend of assuring the quality of SCET academic programs and facilitating students success at the college the department management appoints course coordinators considering the following criteria's.

- Taught the course in multiple times
- Senior most and active members
- Possess domain knowledge
- Amicable and possess team skills
- Constantly update knowledge in emerging areas.

Generally, the role (CC) encompasses, course planning, course design and development, course delivery, selection of

educational resources, assessment, students learning outcomes and course evaluation. Particularly, the course coordinator tasks may include:

- Make a common course handout indicating in detail the syllabus, and the content to be delivered in each session. Even the method/s to be adopted is indicated in the course handout.
- Prepare a lesson plan that indicates the specific time allocation for each of the sub topics of the units. This helps the course instructor to plan their sessions and keep track of the lags and leads in the course delivery.
- Prepare PPTs related to the syllabus.
- Find text books, reference books, other online resources or video lectures etc.
- Identify disparities in the delivery of course, as per the session plan and suggest necessary action plans to overcome such run time hassles.
- Monitor the progress of the course through weekly course meetings.
- Deliberate and approve the sub topics to be delivered in the upcoming week are also discussed.
- Provide possible solutions to problems expressed regarding the delivery of the syllabus and or the method to be adapted after discussion in the course meeting.
- Discuss the model paper for internal assessment.
- Setting of question papers for internal examinations.
- Preparing the scheme of evaluation for internal examination
- Preparing rubric for indirect assessment Evidence of Success For the triumph implementation of OBE, rigorous meetings that have convened in coordination with PC, MC, CC/ course lecturer for strengthening the curriculum.
- The PC has called MC and CC for meeting twice during the academic year and address the action plan of the semester and provides guidelines to the MC and CC.
- The MC has conducted meeting with CC twice in a semester. Wherein guideline for the delivery of the teaching in individual modules were provided.
- The CC has conducted meeting with course lecturers in the event of preparation of course outcome, course material, lesson plan, delivery methods and list of text and reference books at the beginning of the semester.
- The CC has conducted meeting with course lecturers in the middle of the first cycle (MID-I), second cycle (MID-II) and third cycle (MID-III) instruction to monitor the progress of course coverage.
- The CC has conducted meeting with course lecturers before and after MID examination to set internal question paper and to prepare schemes of evaluation respectively. In this meeting coverage of contents as per outcome and learning perspective, distribution of marks has been ensured.
- The CC has conducted meeting with course lecturers and the questioner, for indirect assessment was decided. It is perceived that the mechanism has ensured the smooth and uniform delivery of a single course in the multi-section scenario. Moreover, attainment of CO and PO have computed collectively and transparently. Thus, CC seems an effective component in the OBE. With the Outcome Based Education, both educators and learners are benefitted. Problems Encountered and Resources Required The common challenges involve while implementing the practice are as follows:
- Identifying faculty who have the prerequisites to be course coordinators
- Allocating time: It may difficult to find a common time to conduct meeting as the CC also a course lecturer. They may require time during the semester to meet with and monitor student groups and at the end of the semester to ascertain the contributions of individual team members.
- Conflict resolution skills- CC must have the ability to convince the team members

those who reluctance to adapt the new methodology which is common to all human systems. • Some of the program has single section, in such a case the MC acts as CC if course lecturer is different. • Commitment and motivation were the most important factor of a faculty that was related to the student's success. Therefore, exclusive faculty development program is required for better understanding and implementation of OBE. PRACTICE-II Title of the Practice Employability Skills Enhancement Program- an innovative approach Objectives of the Practice The objective of this practice is to provide training to all branches of the students during pre-final year, semester break and final year to enhance employability skills. The Context After graduation, when students enter the engineering profession, in addition to domain knowledge, other skills and abilities such as communication skills, leadership, innovation, team building are very much required to become successful in their profession, which are not directly covered in the curriculum. To address this need a unique certificate course on employability skills enhancement and career building is designed which focuses on self awareness, professional skills and communications. The Practice The pre-final semester break course was implemented in 90 hours in three weeks continuously with make use of third party professional trainer. The course comprises of two parts, one is communication and personal effectiveness, whereas the second is aptitude and logical ability. These are constituted eleven and fourteen modules respectively. The 60 hour course was conducted for the final year students of all the branches. Students are divided into five batches. In a week, each batch attends one session of two hours duration. Total 30 sessions are planned throughout the academic year for all batches. These sessions include as follows: • Verbal skills • Speaking/writing/reading skills • Basic reading comprehension skills • Effective active listening skills • Body language At the end of the training Program, every student gets course completion certificate. Evidence of Success Assessment of the students is carried out at the end to understand the impact of the program which is conveyed to the students individually. Following generalized statements can be drawn on the basis of students' feedback. • The course is observed to help students improve their skills such as individual report writing, creative and strategic thinking, etc. • There is a noticeable positive change in the overall personality of the students who have completed this course. • Mock interviews and group discussion sessions conducted under this program have resulted in positive feedback from the companies visiting the campus. Problems Encountered and Resources Required • This program needs to be planned beyond the students' regular academic engagements. Hence, it becomes challenging to identify free time-slots for large groups of students. • A separate faculty coordinator had to be assigned for the smooth

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://swarnandhra.ac.in/NAAC/C7/7.2/index.html>

7.3 - Institutional Distinctiveness

7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1. Being a rural-based institution, the students face the challenges in competitions difficulties in grabbing jobs due to lack of communication. For the enhancement of Communication skill, Training programmes are introduced from first year onwards along with their academics. The syllabi was framed differently to attain the ability with international standards for expertise in communication through English lab and had a tie-up with GLOBARENA and FALCON to get high quality in the training. 2. The green energy is promoted by installation of solar panels on all buildings of the institution for the generation of electricity and also solar water heater installed on the hostel buildings. The whole campus is covered with trees and garden to maintain landscape. 3. Centre of Excellence / Incubation centre was established by the department of Information Technology in collaboration with SMARAGDINE Technologies Pvt. Ltd, Hyderabad. The center has Internet facility with high bandwidth for better on-line access of learning materials to enhance research activity in the area of IoT. The institution has signed a Memorandum of Agreement with SMARAGDINE Technologies Pvt. Ltd to provide hands-on experience to the pre final under graduate engineering students directly in the projects of Device Authority. Arduino, Raspberry Pi and Node MCU kits are used in these projects on Linux platform. The Incubation Center promotes real time experience for both student and teaching community thus attaining outcome based education objectives. 4. Social awareness is the ability to accurately interpret a social environment as well as infer the emotions of others in that environment. Several awareness programmes are conducted for the students to attain awareness on all issues of society. 5. The institution provides free education to economically deprived students by giving various Scholarship schemes such as tuition fee, free transportation and accommodation for the eligible students on merit-basis. 6. PMKVY training is being conducted to enrich the skill of youth relate to productivity in industries. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the Ministry of Skill Development Entrepreneurship (MSDE) implemented by National Skill Development Corporation. 9. Applied Robotic Control lab was established, with the collaboration of APSSDC ECM Germany, specialised training is giving to bridge the gap between students and industry with two Advanced Robots. 7. 3D experience lab was established in collaboration with Dassault Systemes and APSSDC

Provide the weblink of the institution

<https://swarnandhra.ac.in/NAAC/C7/7.3/index.html>

8.Future Plans of Actions for Next Academic Year

Strengthen industry-institute interaction. Improvement of consultancy services. Increasing value-

added certification courses. To be ranked in top 150 at prestigious NIRF Ranking. Extension of Academic Autonomy and continuation of accreditations. Getting the status of Deemed- to- be- University. Establishment of new innovation and incubation centers. Centre of Excellence. Creating an intense research ambiance in terms of establishing recognised RD centres in all the departments Green Energy implementation . Faculty petrification in International seminars